



# First Public SHUTTLE Workshop

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## Executive Summary

During the SHUTTLE project, three public events are planned to foster dissemination of results to target audiences. These events aim at collecting input from practitioners-users about their requirements and constraints and to start engaging with the project. It will also serve as platform for interacting with related projects. Workshops will also help to create awareness about SHUTTLE results, collect stakeholders' feedback and inform policy and decision makers. This report is a summary of the first public SHUTTLE workshop and its outcomes for involvement of SHUTTLE community and interested expert audience.

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**Summary of contributions**

Contributing Partners as defined in DoA	Brief Description of Contribution to the Deliverable
ARTTIC	Wrote the deliverable
MININT	Reviewed and completed the deliverable
NFI	Reviewed and commented the deliverable
KEMEA	Reviewed and commented the deliverable

**Document History**

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## List of Acronyms / Abbreviations Used in this Document

Acronym / Abbreviation	Definition
ENFSI	European Network of Forensic Science Institutes
EPG	ENFSI Paint & Glass
ETHG	ENFSI Textile and Hair Group
MSE	Mediterranean Security Event
PCP	Pre-Commercial Procurement
Q&A	Questions & Answers

# 1 Introduction

The development of the SHUTTLE toolkit will be realised through a pre-commercial procurement (PCP) action, which is coordinated and jointly carried out between forensic institutes across Europe.

More precisely, the forensic institutes will organise and manage procurement of R&D services involving risk benefit sharing under market conditions, and competitive development in phases.

During the SHUTTLE project, three public events are planned to foster dissemination of results to target audiences:

- First workshop to start communicating about the project.
- Second workshop to obtain feedback from stakeholders.
- Final conference to communicate the results of the project.

These workshops aim at collecting input from practitioners-users about their requirements and constraints and to start engaging with the project. It will also serve as platform for interacting with related projects. Workshops will also help to create awareness about SHUTTLE results, collect stakeholders' feedback and inform policy and decision makers.

This report is a summary of the first public SHUTTLE workshop and its outcomes. It is a contractual deliverable that is due to be submitted to the EC in the framework of the SHUTTLE project. Importantly, the intent of this document is to present and make available for everyone the results of the workshop, in line with the transparency principle which applies to this public procurement process.

## 2 Overview of the workshop

### 2.1 Objectives of the workshop

Holding the first public SHUTTLE workshop was decided during the proposal preparation phase. Originally, this workshop would have been organised in July 2018. However, it was realised more and more that a dedicated workshop on the toolkit was not appropriate at this stage of the project due to the absence of solutions. Therefore, the SHUTTLE consortium decided to postpone the workshop to a later stage of the project. In the meantime, various dissemination and communication activities were organised, aimed at both end users and possible suppliers (distribution of flyers, presentation of the SHUTTLE project, etc.) in order to invite them to meet the SHUTTLE consortium during the open market consultation event (infoday with live broadcast in January 2019 in Paris CDG Roissy and Webinar in March 2019). Also, tens of people were interviewed by consortium members to collect useful ideas. These interviews are described in the deliverable D1.1, though their rationale is the same as the rationale of the workshop, namely harvesting end user ideas and providing information to end users.

Finally, the consortium chose to couple the workshop with the large joint event entitled Mediterranean Security Event (MSE) 2019 organised on the 29<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> of October at Heraklion (Crete) by SHUTTLE partner KEMEA in collaboration with DG Home.

Its objectives were to:

- Keep people updated on our progress and future steps.
- Have an effective dialogue with the industry (Call for Tender, PCP process, toolkit requirements) and the End-users (Future applications, path to standardisation).

The organisation/preparation (including logistics support), management and follow-up of the workshop was under the responsibility of SHUTTLE partner ARTTIC, who worked in close collaboration with SHUTTLE partner KEMEA.

## 2.2 The co-organisation of the workshop with the MSE

The objective of the MSE was to bring together innovative R&D security projects, practitioners' network, industry and academia in order to facilitate interaction and synergy among R&D activity and the networks of practitioners as users of European Research.

The MSE facilitated promotion of the call for tenders and lead to project exposure to a large audience. Also, the workshop could therefore benefit of the additional communication the MSE offered.

The MSE included:

- Presentations
- Posters
- Discussions
- Demonstrations dedicated to respective H2020 as well as other R&D topics
- Thematic workshops, including brainstorming sessions and focussed discussions, where practitioners and industry/academia discussed present and future security challenges
- Solution exhibition booths/live demonstrations of projects results



Figure 1: MSE flyer

Two levels of participation were proposed:

- **Co-organizers (projects/organizations).** This category included projects or organizations running R&D projects which wished to benefit from the organization presenting their project objectives or results in front of a large audience of security practitioners. They had the possibility to include their project objectives/results presentation in the conference program, have a booth for presenting/demonstrating their project/results and publish a paper in a special edition of a Security Journal.
- **Presenter/Participants (individuals).** They had the opportunity to present their work in the conference or attend presentations, participate in the networking sessions and the workshops.

SHUTTLE selected the “Co-organizer” package with stand/booth which included:

- 1 booth in Ambrosia room
- 50” monitor and stand
- Project rollup banner
- Registration fees for 2 people
- 1 presentation in the MSE
- Dissemination material in the event’s bag
- 1 publication in a special volume of Springer editions
- Logo in all electronic and printed material of the event

As requested by the MSE organising committee, the following MSE2019 logo was included in SHUTTLE public website. Some SHUTTLE partners also included it in the website as well as the social medias (e.g. LinkedIn, Twitter, Facebook) of their organisation.

Co-organizer of MSE2019



Figure 2: Mediterranean Security Event (MSE) 2019 logo

This increased the visibility of the joint effort and “spread the word” to the stakeholders, policy makers and the public audience for MSE 2019.



## 2.3 Workshop agenda

The First Public SHUTTLE workshop was organised on the 30<sup>th</sup> of October 2019 from 14:00 to 17:00. Three sessions were planned during the workshop, with presentations made by partners MININT, KEMEA and NFI:



Figure 3: First SHUTTLE Public Workshop agenda

## 2.4 MSE event facilities

The MSE event was organised by SHUTTLE partner KEMEA in a large resort centre in Heraklion in order to host all the necessary parallel sessions and conference requirements.



Figure 4: Conference room of the MSE event

Transport by buses at specific hours has been arranged between the Heraklion airport and the venue and vice versa by KEMEA.

## 2.5 Promotion of the workshop

All the SHUTTLE partners informed their respective business networks about the MSE event and the First Public SHUTTLE Workshop and invited them to participate, notably through social media channels:

- **LinkedIn:**



**Linda Alewijnse** • 1er

Wetenschappelijk Onderzoeker Vezels en Textiel bij het Nederlands Forensisch Instituut...  
1 mois •

The SHUTTLE consortium will organise its First Public Workshop on the 30th of October 2019. This workshop will be co-organised with the large joint event entitled Mediterranean Security Event 2019 scheduled on the 29th, 30th and 31st of October 2019 in Heraklion, Crete.

[Voir la traduction](#)



5

J'aime Commenter Partager



**ARTTIC**

975 abonnés

1 mois •

The **#SHUTTLE** project will be holding a public workshop on Oct. 30th as part of the Mediterranean Security Event 2019 that will take place in Heraklion (Crete). Distinct sessions have been planned for industry representatives interested in the call for tender and prospective end-users of the high-throughput trace analysis toolkit.  
Info: <https://lnkd.in/eZcnexT>


**Ministère de l'Intérieur**  
**Polícia Judiciária**  
**Amsterdam University of Applied Sciences**  
**Netherlands Forensic Institute**  
**Center for Security Studies (KEMEA)**

[Voir la traduction](#)





Grégory BRICHE • 1er

Responsable du Programme "MAEVAS" chez Institut de Recherche Criminelle de la...  
1 mois • 

SHUTTLE will be at the MSE2019.

SHUTTLE toolkit will be realized through a pre-commercial procurement (PCP) action, which is coordinated and jointly carried out by forensic institutes from 6 different countries. Those laboratories will organize and manage procurement of the R&D services involving risk benefit sharing under market conditions, and competitive development in phases.

The SHUTTLE project will launch its call for tender to support the development of this Toolkit for Trace analysis.

Awarded Phase 1 tenderers will get contracts up to EUR 240,000 each.

Learn more about SHUTTLE PCP on <https://lnkd.in/eDMhqp4>

[Voir la traduction](#)



**Figure 5: Promotion of the workshop on LinkedIn**

## Twitter:



Figure 6: Promotion of the workshop on Twitter

Finally, the workshop was also promoted through the SHUTTLE Newsletter N°1 released on the 30<sup>th</sup> of September by ARTTIC:

- SAVE THE DATE** - The SHUTTLE consortium will organise its **First Public Workshop on the 30<sup>th</sup> of October 2019 in Heraklion, Crete**. This workshop will be co-organised with the large joint event entitled "**Mediterranean Security Event 2019**" scheduled on the **29<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> October 2019**. The aims of the SHUTTLE First Public Workshop are to keep you updated on our progress and future steps and to have an effective dialogue with the Industry (Call for tender, PCP process, toolkit requirements) and the End-users (Future applications, path to standardisation). The agenda and logistics information will be released very soon on [our website](#). We look forward to seeing you!

Figure 7: Extract from the SHUTTLE Newsletter N°1 promoting the workshop

## 2.6 Dissemination material included in the welcome pack

### 2.6.1 SHUTTLE Brochure

The SHUTTLE brochure was updated to attract potential tenderers and to focus on the next steps.

#### OVERVIEW

The SHUTTLE's call for tender was launched on the **20<sup>th</sup> of September 2019**.

SHUTTLE H2020 project aims to develop a toolkit which facilitates the analysis of microtraces collected on a crime scene. To do so, a **Pre-Commercial Procurement (PCP)** action is carried out by 8 forensic laboratories and institutes across Europe.

These forensic institutes will organise and manage the procurement of R&D services involving risks and benefits sharing under market conditions, and competitive development in 3 phases.

The EC funding for the subcontracted activities is 7.4M€. **Industrials have until the 20<sup>th</sup> November 2019 to submit their proposals.**

To subscribe to the SHUTTLE Newsletter, please visit [www.shuttle-pcp.eu/newsletter](http://www.shuttle-pcp.eu/newsletter)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 786913.

This document reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.

#### SHUTTLE PARTNERS

#### SHUTTLE

*Scientific High-throughput and Unified Toolkit for Trace analysis by forensic Laboratories in Europe*

The SHUTTLE project will hold a **PUBLIC WORKSHOP** during the MSE Event 2019 (30<sup>th</sup> October from 14:00 to 17:00). **Join us to get more Information.**

<https://ec.europa.eu/programmes/horizon2020>

#### CONTACTS

For further information, please contact :

Project Management Office (ARTIC)  
[shuttle-sec09-artic@eurtd.com](mailto:shuttle-sec09-artic@eurtd.com)  
 SHUTTLE project website : [www.shuttle-pcp.eu](http://www.shuttle-pcp.eu)

Follow us on twitter @projectshuttle

#### CONCEPT

So far, all the trace analysis lean on the "Microscopist eyes". It's time-consuming, selective and hardly objective due to the complexity of the process. The SHUTTLE toolkit will contain tools aimed to solve the current difficulties. Each of them, as well as their fluent interaction, is required for optimal operation.

- Microscopic grade tape or any other lifting system.
- An automated microscope that will form the eyes of the SHUTTLE toolkit.
- Algorithms for image processing that will form the brain of the SHUTTLE toolkit.
- A database and search algorithms, that will form the memory of the SHUTTLE toolkit.

##### SHUTTLE Process

Further specific analyses (DNA, RAMAN, FTIR, GRIM and ICP-MS (glass), SEM(X))

The aim is to make a powerful and versatile toolkit to solve the major issues in forensic trace evidence investigation. Additional specifications will be set on privacy issues, training, user-friendliness, long-term sustainability, and integration with other techniques.

#### PROCESS AND TIMELINE

The PCP process has started with a preparation phase (PCP Phase 0) which is ongoing. The PCP Challenge has been reviewed and the Procurement and Evaluation methodology defined.

The next major step is the launch of the SHUTTLE call for tender on the **20<sup>th</sup> of September 2019**. The SHUTTLE consortium challenges the European industry to design and develop a toolkit.

Please note that mentioned dates are according to current planning and might be adjusted due to circumstances.

PCP Phase 0		PCP Phase 1	PCP Phase 2	PCP Phase 3
<b>Review of the PCP Challenge</b>	<b>Procurement and Evaluation Methodology</b>	<b>Call for tender</b>	<b>Solution Design</b>	<b>Prototype development</b>
Collection of requirements SOTA Review Definition of Benchmark Method Open Market consultation	Procurement Methodology Common Evaluation Methodology Verification and Validation Strategy	Proposal submission from the bidders Evaluation of proposals Selection of a group of bidders to be contracted to participate in next phase.	Supplier A Supplier B Supplier C Supplier D 4 suppliers	Supplier B Supplier C Supplier D 3 suppliers
M1-M9	M4-M12	20 <sup>th</sup> September 2019 January 2020	February 2020 July 2020	August 2020 April 2021
Users requirements Functional Specifications Benchmark Method Costs Analysis and Business Case	Tender Documents Framework contracts	Detailed Design of SHUTTLE Machine + Toolkit	First prototype of SHUTTLE Machine + Toolkit	Assessment of first batch of SHUTTLE Machine + Toolkit

Awarded Phase 1 organizations will get contracts up to EUR 240,000.00 each.

Figure 8: SHUTTLE brochure



## 2.6.2 SHUTTLE Flyer

A flyer was designed to promote the SHUTTLE Call for Tender.

**SHUTTLE**

**AUTOMATED PROCESSING  
ALGORITHM CALL IMAGING  
IMAGE CRIME FORENSIC  
CRIMINAL FOR TENDER  
MICROSCOPE TAPE DATABASE**

The SHUTTLE PCP project has launched its call for tender to support the development of a "Scientific High-throughput and Unified Toolkit for Trace analysis by forensic Laboratories in Europe" on the 20<sup>th</sup> of September 2019.

**AWARDED PHASE 1 ORGANIZATIONS WILL GET CONTRACTS UP TO €240,000.00 EACH**

**THE EC FUNDING FOR THE SUBCONTRACTED ACTIVITIES IS 7.4M€**

TO LEARN MORE ABOUT THE PCP TENDER AND ACCESS THE TENDER DOCUMENTS PLEASE VISIT [www.shuttle-pcp.eu/pre-commercial-procurement](http://www.shuttle-pcp.eu/pre-commercial-procurement)

IN THE MEANTIME, QUESTIONS AND ANSWERS ARE AVAILABLE IN THE Q&A SECTION [www.shuttle-pcp.eu/pre-commercial-procurement/qa-section/](http://www.shuttle-pcp.eu/pre-commercial-procurement/qa-section/)

TO SUBSCRIBE TO THE SHUTTLE NEWSLETTER, PLEASE VISIT [www.shuttle-pcp.eu/newsletter](http://www.shuttle-pcp.eu/newsletter)

*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 786913.*

Logos of partner organizations:

Figure 9: SHUTTLE Flyer

### 2.6.3 SHUTTLE rollup banner

A dedicated metallic base rollup banner (0.85m width \* 2m high) was designed for SHUTTLE booth.

**AUTOMATED PROCESSING  
ALGORITHM CALL IMAGING  
IMAGE CRIME FORENSIC  
CRIMINAL FOR TENDER  
MICROSCOPE TAPE DATABASE**

**THE SHUTTLE CONSORTIUM  
CHALLENGES THE EUROPEAN  
INDUSTRY TO DESIGN AND DEVELOP ITS  
TOOLKIT IMPLEMENTING THE SHUTTLE  
PROCESS AND HAS LAUNCHED ITS CALL  
FOR TENDER – 7.4 M€ OF SUBCONTRACTED  
ACTIVITIES – ON 20TH SEPTEMBER 2019.  
Industrials have until the 20th November 2019 to  
submit their proposals.**

**SHUTTLE Process**

- Tape or any other lifting system
- Automated microscope
- Image processing
- Database formation
- Pattern recognition procedures

Further specific analyses  
(DNA, RAMAN, FTIR, GRIM and ICP-MS (glass), SEM/X)

**THE AIM OF THE SHUTTLE PROJECT**  
is to build a powerful and versatile toolkit  
to solve the major issues in forensic trace  
evidence investigation (time-consuming,  
selective and hardly objective)

TO SUBSCRIBE TO THE SHUTTLE  
NEWSLETTER, PLEASE VISIT  
**[www.shuttle-pcp.eu/  
newsletter](http://www.shuttle-pcp.eu/newsletter)**

TO LEARN MORE ABOUT THE PCP TENDER  
AND ACCESS THE TENDER DOCUMENTS, PLEASE VISIT:  
**[www.shuttle-pcp.eu/  
shuttle-call-for-tenders/](http://www.shuttle-pcp.eu/shuttle-call-for-tenders/)**

**For more information please attend the  
SHUTTLE Workshop on 30th October  
(14:00-17:00) at the MSE event**

*This project has received funding from the European Union's Horizon 2020  
research and innovation programme under grant agreement N° 786913.*

Logos of participating organizations:         

Figure 10: SHUTTLE rollup banner

## 2.6.4 Goodies

Around 40 kits including SHUTTLE bag, notebook, pen and dissemination material (brochure and flyer presented above) were prepared for distribution to attendees.



Figure 11: SHUTTLE exhibition booth

## 2.7 Attendance

### 2.7.1 Invitation

In order to attract the audience and maximise the impact of the workshop, the partner KEMEA promoted the workshop by email to the list of SHUTTLE external contacts:

- Contacts from webinar
- Contacts from infoday
- People who had expressed their interest in SHUTTLE through the Q&A section or the contact form of the public website
- People met during dissemination events
- National contact points
- Members of the ENFSI<sup>1</sup> working groups (ETHG<sup>2</sup> and EPG<sup>3</sup>)

<sup>1</sup> European Network of Forensic Science Institutes

<sup>2</sup> ENFSI Textile and Hair Group

<sup>3</sup> ENFSI Paint & Glass





**Figure 12: Invitation to First Public SHUTTLE Workshop**

## 2.7.2 SHUTTLE participants

Below is the list of people from SHUTTLE project who participated in the workshop:

Organisation	Name	Role
MININT	Grégory Briche	Co-organizer
MININT	Sophia Berkani	Presenter
MININT	Nadine Mérat	Participant
MININT	Amélie Devresse	Participant
NFI	Jaap van der Weerd	Presenter
KEMEA	Maria Kampa	Participant
KEMEA	Christina Pavlou	Presenter
KEMEA	Aggelos Vassileiou	Participant

## 2.7.3 External participants

The list of external participants can be found below.

## SHUTTLE First Public Workshop



Organisers:

SHUTTLE Project

Date: Day 2 – 30<sup>th</sup> October 14.00 – 17.00

Location: Workshop Room B

	Name	Organization	E-mail
1	Sophia BERLANI	Lein Int	Sophia.Berlani@ gudabawee.indeade. gov.f.
2	Mona Kaura	Kenia	w.kaura@renewa-research.org
3	Vasiliki-Georgia Bilali	KEMZA	g.bilali@renewa-research.org
4	Iiona Baak	NFI	iillonaBa@gmail.com
5	Joop van der Meer	NFI	

✓

✓

X

✓

✓

	Name	Organization	E-mail	
6	Nadine MÉRAT	MININT	madine.merai@antecient.gouv.fr.	✓
7	BRECHÉ Gregory	MININT/IRCAU	gregory.kadla@gadameci.mexico.gouv.fr	✓
8	FILIPPO MARDELLI	EXPERT SYSTEMS	fuordelli@expertsystems.com	✓
9	Kontogouris' Charinos	CEMEA	akontogouris@kemea.gr	x
10	DEVESE Amelie	MININT /IRCAU	amelie.devese@gadameci.intérieur.gouv.fr	✓
11	Karim Jemna	OPB	karim.jemna@gottlieb	
12	Ana Beaulovic	KPU	ana.beaulovic@kpuedus	✓
13	Laurent Belman	Thales SA.	laurent.belman@thalesgroup.com	✓

SHUTTLE WORKSHOP

	Name	Organization	E-mail	
14	Kelly Sheridan	NORTHUMBRIA UNIVERSITY, UK	kelly.sheridan @northumbria.ac.uk.	✓
15	Christina Pardon	KEUTA	c.pardon@ keuta-research.gr	✓
16	Angelos Vasileiou	KEUTA	a.vassileiou@ keuta-research.gr	✓
17	Costas Balas	Spectricon	costas.balas@spectricon.com	✓
18	Nathanail Katsalivadakis	Spectricon	nathan@spectricon.com	✓
19				
20				
21				

SHUTTLE WORKSHOP

#### 2.7.4 Specific case of the funded external participants

The budget allowed to cover the costs of participation of 8 guests external to the SHUTTLE consortium important for the project. Each partner was asked to suggest names of end-users to invite and who would receive a refund of their travel and accommodation expenses. Three guests selected by the partners positively replied to attend and had their expenses refunded:

- Mrs. Kelly Sheridan, Senior Lecturer in Forensic Science, Department of Applied Science, Northumbria University, Newcastle, United Kingdom
- Mrs. Ana Brankovic, Assistant Professor, Forensics Department, University of Criminal Investigation and Police Studies, Belgrade, Serbia
- Mrs. Ilona Baak, DNA trace expert, NFI DNA section.

## 3 Content of the workshop

### 3.1 Presentations

Sessions were arranged as follows:

- **SHUTTLE introduction: NFI**

NFI introduced the SHUTTLE project. More specifically, NFI described the aims of SHUTTLE (current and future environment), SHUTTLE from the past (i.e. the initial idea) to the near and far future and topics for the two following sessions with respectively industrials and end-users.

- **Discussion towards Industrials: KEMEA**

KEMEA started by welcome the industrials and provide some guidelines as well as the context of the session. Firstly, Christina Pavlou presented where the industrials could find all the documentation related to the tender and also, she introduced the PCP concept. Following some information were presented for the background of the SHUTTLE and the challenges that led to the need for the PCP. In the second part of the presentation, Christina presented detailed information regarding the tenderer's eligibility as well as guidelines on how to successfully submit a tender. More specifically, the presentation focused on the pitfalls that need to be avoided and on explaining some grey areas of the ToR document. In this regard the presentation concluded with the conditions of the contracts including the payment schedule and the allocation arrangements of the IPRs.

- **Discussion towards End-users: MININT**

During this session, discussion was held with end-users about how to raise visibility and awareness on SHUTTLE. Questions on the technical requirements were answered. Focus points for implementation of SHUTTLE into case work validation, R&D studies and education were addressed. Finally, future applications and path to standardization were discussed.

The presentations and the video are available on the '[First SHUTTLE Public Workshop](#)' page of the SHUTTLE Public Website.

### 3.2 Questions and Answers

In line with the principle of transparency, discussions held during the workshop are available to everyone on the [Q&A Section](#) of the SHUTTLE Public Website which presents all the questions that have been asked and their respective answers for the benefit of all potential suppliers.

## 4 Assessment of the workshop and outcome

The participation from the industry's side in the SHUTTLE workshop was low and out of the three participants only one from of them had relevant experience with the forensic sector. At the current stage of the project, no feedback was expected from the industry, but the consortium was engaged to provide information and clarifications to potential tenderers. In this regard, the SHUTTLE PCP was presented, and clarifications were given to the participating potential tenderer, who also eventually submitted a bid. In the upcoming events, feedback from the industry's side can be expected in terms of the commercial feasibility of the Shuttle Toolkit as well as its market potential, identifying potential barriers to entry, risks and opportunities.

However, the Consortium will focus more in the end users' workshops, capitalising also on the results of the successful contractors of the tender and trying to collect feedback on their perspective for the SHUTTLE Toolkit development.

## 5 Workshop budget summary

The initial budget foreseen for this workshop was 11 600€.

**Table 1: Workshop budget summary**

Item	Amount	Comment
Co-organizer package with booth	1500€ + 24% VAT TOTAL = 1860€	Covered by ARTTIC budget dedicated to the workshop.
Reimbursement of accommodation and travel expenses of three funded external participants	1766€ for two experts. The expenses of the third expert are being consolidated.	Covered by ARTTIC budget dedicated to the workshop.
Recording costs	0€	
DHL to send goodies	211.17€	Covered by ARTTIC budget dedicated to the workshop.
<b>TOTAL</b>	<b>3837.17€</b>	

## 6 Conclusions

The first workshop was the opportunity to participate in the activities of the SHUTTLE project and to get informed regarding its Call for Tender launched on the 20<sup>th</sup> of September.